Edite appli Adde Edite Chan Correa applications applicati	nged a file from non-ASC anged the margins in cases and a format error in the Current Application cant was the prior appet the mandatory heading and the "Number of Sequent aged the spelling of a marged the SEQ ID NO who seed or corrected a nucleic ted or corrected a nucleic specific price of the second and the sec	Il to ASCII s where the sequence urrent Application Data Data section with the oplication data; or and subheadings for nees" field. The application datory field (the headern obviously incorrect c number at the end of	e text was "wrappeda section, specifical extual current number "Current Applicate cant spelled out a dings or subheading. The sequence researches to the se	CRF Processing Date: Edited by: Verified by: Verified by: (ST ed" down to the next line. are NTERED umber. The number inputted by the strong data integer in the strong data
Char Edite appli Adde Edite Char Corre Inser	nged a file from non-ASC anged the margins in cases and a format error in the Current Application cant was the prior appeal the mandatory heading and the "Number of Sequent aged the spelling of a marged the SEQ ID NO who led or corrected a nucleic acted subheading placement placed a response because the spense because the spense of the spense o	Il to ASCII s where the sequence urrent Application Data Data section with the oplication data; or and subheadings for nees" field. The application datory field (the headern obviously incorrect c number at the end of	e actual current nu other	verified by:(ST ed" down to the next line ear NTERED umber. The number inputted by the tion Data". number instead of using an integ engs), specifically:
Edite appli Adde Edite Chan Correa applications applications and the corresponding applications applied applications applied a	ad a format error in the Current Application cant was the prior apped the mandatory heading ad the "Number of Sequent aged the spelling of a mandated the SEQ ID NO where the corrected a nucleic extend subheading placement and placed a response because the spelling of th	Data section with the oplication data; or and subheadings for nees" field. The application obviously incorrect number at the end of ent. All responses multiple and the section of the section of the section of the section obviously incorrect the section of the s	e actual current nu other	umber. The number inputted by the tion Data". number instead of using an integrange, specifically:
Edite appli Adde Edite Chan Correct Inserting applications applied to the correct applied t	ed the Current Application cant was the prior apost the prior apost the mandatory heading do the "Number of Sequent aged the spelling of a mandated the SEQ ID NO who ted or corrected a nucleic exted subheading placement placed a response because the spelling of the spel	Data section with the oplication data; or and subheadings for nees" field. The application datory field (the headen obviously incorrect number at the end of ent. All responses mu	e actual current nu other	umber. The number inputted by the tion Data". number instead of using an integrangs), specifically: numbers that were edited were:
Adde Edite Chan Corre Insen	cant was the prior appeared the mandatory heading of the "Number of Sequenting of a mare exted the SEQ ID NO where the dor corrected a nucleic exted subheading placement placed a response because the second of the second	pplication data; or g and subheadings for nces" field. The applicant at the end of ent. All responses many positions are the end of	other r "Current Applicat cant spelled out a dings or subheadir t. The sequence r	tion Data". number instead of using an integ ngs), specifically: numbers that were edited were:
Correapplic	d the "Number of Sequence and the spelling of a mare exted the SEQ ID NO who ted or corrected a nucleic exted subheading placement placed a response because the specific of the subheading placement placed a response because the subheading placement placed a response because the subheading placement placed as the subheading placed as the su	nces" field. The applicant of the head of	cant spelled out a dings or subheadings. The sequence r	number instead of using an integings), specifically: numbers that were edited were:
Corre	ected the SEQ ID NO who ted or corrected a nucleic ected subheading placemeant placed a response be	en obviously incorrect number at the end of ent. All responses mu	dings or subheadin	ngs), specifically:
Corre applic	ected the SEQ ID NO who ted or corrected a nucleic ected subheading placemeant placed a response be	en obviously incorrect number at the end of ent. All responses mu	t. The sequence r	numbers that were edited were:
Corre	ted or corrected a nucleic ected subheading placemeant placed a response be	enumber at the end of		
Corre applic	ected subheading placemeant placed a response be	ent. All responses mo	f a nucleic line. S	SEQ ID NO's edited:
applic Inser	cant placed a response be			
	ted colons after headings	olow the submeading,		ne line as each subheading. If the o its appropriate place.
Dele		s/subheadings. Head	lings edited includ	led:
	ted extra, invalid, heading	gs used by an applica	nnt, specifically:	
Dele	non-ASCII "garb page numbers throughou	age" at the beginning	/end of files: U	secretary initials/filename at end
Inse	rted mandatory headings	, specifically:		
Corr	ected an obvious error in	the response, specific	ically:	
Edite	ed identifiers where upper	r case is used but low	ver case is require	d, or vice versa.
Corre	ected an error in the Num	nber of Sequences fie	eld, specifically:	
A "H	ard Page Break" code wa	as inserted by the app	olicant. All occurre	ences had to be deleted.
				e "(A)Length:" field accordingly (e
Othe	<u>. </u>			

*Examin r: Th abov corrections must be communicated to th applicant in th first Office Action. DO NOT s nd a copy of this form.

3/1/95

1 2

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

DATE: 11/08/98 TIME: 17:29:49

INPUT SET: S29660.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERED SEQUENCE LISTING

```
3
            (1)
                   General Information
            (i)APPLICANT: ELAZAR RABBANI
           JANNIS G. STAVRIANOPOULOS
            JAMES J. DONEGAN
           DAKAI LIU
        9
           NORMAN E. KELKER
       10
           DEAN L. ENGELHARDT
       11
       12
            (ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING
           AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR
       13
            THERAPEUTIC AND DIAGNOSTIC USE
       14
       15
            (iii) NUMBER OF SEQUENCES: 42
       16
       17
       18
            (iv) CORRESPONDENCE ADDRESS:
       19
            (A) ADDRESSEE: ENZO THERAPEUTICS, INC.
       20
            (B) STREET: C/O ENZO BIOCHEM, INC.
       21
            527 MADISON AVENUE,
       22
            9TH FLOOR
       23
            (C)CITY: NEW YORK
       24
            (D)STATE:NY
       25
            (E) COUNTRY: USA
       26
            (F)ZIP:10022
       27
       28
            (v) COMPUTER READABLE FORM:
            (A)MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB
       29
       30
           STORAGE
            (B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
       31
       32
            (C)OPERATING SYSTEM:PC-DOS
            (D)SOFTWARE: MICROSOFT WORD - ASCII TEXT (DOS)
       33
       34
       35
            (vi) CURRENT APPLICATION DATA:
                                     US 08/978,637
       36
            (A)APPLICATION NUMBER:
       37
            (B) FILING DATE: 25-NOVEMBER-1997
       38
            (C)CLASSIFICATION: Not Yet Known
-->
       39
            (viii) ATTORNEY/AGENT INFORMATION:
       40
            (A) NAME: FEDUS, RONALD C.
       41
            (B) REGISTRATION NUMBER: 32,567
       42
       43
            (C)REFERENCE/DOCKET NUMBER: ENZ-53(D5)
       44
       45
            (ix) TELECOMUNICATION INFORMATION:
            (A)TELEPHONE: (212) 583-0100
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

TIME: 17:29:50

DATE: 11/08/98

INPUT SET: S29660.raw

```
47
    (B)TELEFAX: (212) 583-0150
48
    (2) INFORMATION FOR SEQ ID NO:1:
49
50
    (i) SEQUENCE CHARACTERISTICS:
51
    (A) LENGTH: 20 amino acids
52
    (B) TYPE:amino acid
53
    (C) STRANDEDNESS: single
54
    (D) TOPOLOGY: linear
55
56
57
    (ii) MOLECULE TYPE: peptide
58
    (iii) HYPOTHETICAL: NO
59
60
    (ix) SEQUENCE DESCRIPTION: SEQ ID NO:1:
61
62
63
    Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly
64
                                        10
65
    Met Ile Ala Gly
66
67
       20
68
69
70
    (2) INFORMATION FOR SEQ ID NO:2:
71
72
    (i) SEQUENCE CHARACTERISTICS:
73
    (A) LENGTH: 20 base pairs
    (B) TYPE: nucleic acid
74
    (C) STRANDEDNESS: double
75
    (D) TOPOLOGY: linear
76
77
    (ii) MOLECULE TYPE: DNA (genomic)
78
79
80
    (iii) HYPOTHETICAL: NO
81
82
    (ix) SEQUENCE DESCRIPTION: SEQ ID NO:2:
83
    TGCTCTCTAA
                 GGGTCTACTC
                                20
84
85
86
87
    (2) INFORMATION FOR SEQ ID NO:3:
88
    (i) SEQUENCE CHARACTERISTICS:
89
    (A) LENGTH: 15 base pairs
90
    (B) TYPE: nucleic acid
91
92
    (C) STRANDEDNESS: double
93
    (D) TOPOLOGY:linear
94
95
    (ii) MOLECULE TYPE: DNA (genomic)
96
97
    (iii) HYPOTHETICAL: NO
98
99
    (ix) SEQUENCE DESCRIPTION: SEQ ID NO:3:
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

DATE: 11/08/98 TIME: 17:29:52

INPUT SET: S29660.raw

100	
101	CTCTAAGGTA AATAT 15
102	
103	
104	(2) INFORMATION FOR SEQ ID NO:4:
	(2) INFORMATION FOR DBQ ID NO.4.
105	(') GROUPING GUIDIGHEDIGHIGG
	(i) SEQUENCE CHARACTERISTICS:
107	(A) LENGTH:16 base pairs
108	(B) TYPE:nucleic acid
109	(C) STRANDEDNESS: double
110	(D) TOPOLOGY:linear
111	
112	(ii) MOLECULE TYPE: DNA (genomic)
113	(22, 33223022 33223 (323333)
114	(iii) HYPOTHETICAL: NO
115	(III) MIFOIMBITERE: NO
	/i> GEOWENGE DEGGRIDATION GEO ID NO. 4.
116	(ix) SEQUENCE DESCRIPTION: SEQ ID NO:4:
117	
118	TGTATTTTAG ATTCAA 16
119	
120	
121	(2) INFORMATION FOR SEQ ID NO:5:
122	
123	(i) SEQUENCE CHARACTERISTICS:
124	(A) LENGTH:19 base pairs
125	(B) TYPE:nucleic acid
	(C) STRANDEDNESS:double
127	(D) TOPOLOGY:linear
128	() 101020011211002
129	(ii) MOLECULE TYPE: DNA (genomic)
130	(II) MODECODE IIFE. DAR (genomic)
	/111 HUDOMIEMTON . UEG
131	(iii) HYPOTHETICAL: YES
132	
133	(ix) SEQUENCE DESCRIPTION: SEQ ID NO:5:
134	
135	TGCTCTCTAA GGTAAATAT 19
136	
137	
138	(2) INFORMATION FOR SEQ ID NO:6:
139	
140	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH:19 base pairs
142	(B) TYPE:nucleic acid
143	(C) STRANDEDNESS:double
144	(D) TOPOLOGY:linear
	(D) TOPOLOGY:IInear
145	All MOTHER BURE.
146	(ii) MOLECULE TYPE: DNA (genomic)
147	
148	(iii) HYPOTHETICAL: YES
149	
150	(ix) SEQUENCE DESCRIPTION: SEQ ID NO:6:
151	
152	TGTATTTTAG GGTCTACTC 19

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

DATE: 11/08/98 TIME: 17:29:53

INPUT SET: S29660.raw

```
153
     (2) INFORMATION FOR SEQ ID NO:7:
154
155
156
     (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH:19 base pairs
157
     (B) TYPE: nucleic acid
158
159
     (C) STRANDEDNESS: single
160
     (D) TOPOLOGY: linear
161
     (ii) MOLECULE TYPE: mRNA
162
163
     (iii) HYPOTHETICAL: YES
164
165
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:7:
166
167
168
     UGCUCUCUAA GGUAAAUAU
169
170
     (2) INFORMATION FOR SEQ ID NO:8:
171
172
     (i) SEQUENCE CHARACTERISTICS:
173
     (A) LENGTH:19 base pairs
174
     (B) TYPE: nucleic acid
175
176
     (C) STRANDEDNESS:single
177
     (D) TOPOLOGY:linear
178
     (ii) MOLECULE TYPE: mRNA
179
180
     (iii) HYPOTHETICAL: YES
181
182
183
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:8:
184
     UGUAUUUUAG GGUCUACUC
185
                                  19
186
187
188
     (2) INFORMATION FOR SEQ ID NO:9:
189
190
     (i) SEQUENCE CHARACTERISTICS:
191
     (A) LENGTH: 20 base pairs
192
     (B) TYPE: nucleic acid
193
     (C) STRANDEDNESS: single
     (D) TOPOLOGY:linear
194
195
196
     (ii) MOLECULE TYPE: mRNA
197
198
     (iii) HYPOTHETICAL: YES
199
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:9:
200
201
     UGCUCUCUAA
                  GGGUCUACUC
202
                                   20
203
204
205
    (2) INFORMATION FOR SEQ ID NO:10:
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

TIME: 17:29:55

DATE: 11/08/98

```
INPUT SET: S29660.raw
206
     (i) SEQUENCE CHARACTERISTICS:
207
     (A) LENGTH: 49 base pairs
208
209
     (B) TYPE: nucleic acid
210
     (C) STRANDEDNESS:single
211
     (D) TOPOLOGY:linear
212
     (ii) MOLECULE TYPE: other nucleic acid
213
     (A) DESCRIPTION: /desc = "oligonucleotide"
214
215
216
     (iii) HYPOTHETICAL: YES
217
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:10:
218
219
220
     GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC
                                                                        49
221
222
223
     (2) INFORMATION FOR SEQ ID NO:11:
224
225
     (i) SEQUENCE CHARACTERISTICS:
226
     (A) LENGTH:55 base pairs
227
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
228
229
     (D) TOPOLOGY: linear
230
231
     (ii) MOLECULE TYPE: other nucleic acid
      (A) DESCRIPTION: /desc = "oligonucleotide"
232
233
234
     (iii) HYPOTHETICAL: YES
235
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:11:
236
237
                                                                                  55
     GACTAGTTGG TCTCGTCTCT TTTTTGGAGG AGTGTCGTTC TTAGCGATGT
                                                                      TAATC
238
239
240
     (2) INFORMATION FOR SEQ ID NO:12:
241
242
    (i) SEQUENCE CHARACTERISTICS:
243
     (A) LENGTH: 46 base pairs
244
245
     (B) TYPE: nucleic acid
246
     (C) STRANDEDNESS: single
247
     (D) TOPOLOGY: linear
248
249
     (ii) MOLECULE TYPE: other nucleic acid
250
      (A) DESCRIPTION: /desc = "oligonucleotide"
251
252
     (iii) HYPOTHETICAL: YES
253
254
     (ix) SEQUENCE DESCRIPTION: SEQ ID NO:12:
255
256
     GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC
                                                                     46
257
258
```

PAGE: 6

RAW SEQUENCE LISTING PATENT APPLICATION US/08/978,637

DATE: 11/08/98 TIME: 17:29:57

INPUT SET: S29660.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

	814	(2) INFORMAT	TION FOR SEQ	ID NO:42:								
	815											
	816	(i) SEQUENCE CHARACTERISTICS:										
	817	(A) LENGTH:	67 base pairs									
	818	(B) TYPE:nuc										
	819		DNESS:single									
	820	(D) TOPOLOG	Y:linear									
	821											
	822		LE TYPE: othe									
	823	(A) DESCR	IPTION: /des	c = "oligonuc	leotide"							
	824											
	825	(iii) HYPOTI	HETICAL: YES									
	826											
	827	(ix) SEQUEN	CE DESCRIPTION	N:SEQ ID NO:4	2:							
	828											
•	829	CCGGATAATA	CGACTCACTA	TAGGGCGAGC	TCGGTACCCG	GGTCTAGAGT	CGACCTGCAG	60				
	830						•					
	831	GCATGCT	67									
	832											
	833											
	834											
	835											
	836											

PAGE: 1

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/978,637*

DATE: 11/08/98 TIME: 17:29:58

INPUT SET: S29660.raw

Line

Error

Original Text

38

Wrong Classification

(C)CLASSIFICATION:Not Yet Known